

CC The present sequence is human metalloproteinase ADAMTS-9. The  
 CC ADAMTS family of proteins is closely related to the ADAM (A Disintegrin  
 CC and Metalloproteinase Domain) family. Members of the ADAMTS family  
 CC contain a thrombospondin domain in addition to the disintegrin and  
 CC metalloproteinase domains found in the ADAMs. ADAMTS polypeptides are  
 CC useful for the manufacture of medicaments for treating conditions  
 CC associated with neuroinflammation and/or neurodegeneration, such as  
 CC Alzheimer's disease, Parkinson's disease and stroke. They are also  
 CC useful for treating conditions associated with cell proliferation, cell  
 CC migration, inflammation and/or angiogenesis, such as cancer, arthritis  
 CC and autoimmune diseases. They can be used to treat patients afflicted  
 CC with an invasive tumour, a brain tumour or brain injury.

XX SQ Sequence 1073 AA;  
 Query Match 99.4%; Score 1025; DB 21; Length 1073;  
 Best Local Similarity 99.5%; Pred. No. 2.9e-106;  
 Matches 189; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LSPYRFVEVLVADNRWVS YHGENLQHYLTMSIVASIVKPSIGNLNINIVNVLIVH 60  
 DB 289 LSPYRFVEVLVADNRWVS YHGENLQHYLTMSIVASIVKPSIGNLNINIVNVLIVH 348  
 QY 61 NEQDGPISFNACTTLKQFQWHSKNSPGGIHHDHTAVLLTRQDICRAHDKCDTLGLAEL 120  
 DB 349 NEQDGPISFNACTTLKQFQWHSKNSPGGIHHDHTAVLLTRQDICRAHDKCDTLGLAEL 408  
 QY 121 GTICDPYRSCSISDSGLSTAFTHAELGHVFNPHDNNKKEGVKSPQHVMAPTLNF 180  
 DB 409 GTICDPYRSCSISDSGLSTAFTHAELGHVFNPHDNNKKEGVKSPQHVMAPTLNF 468  
 QY 181 YTNPMWMSKC 190  
 DB 469 YTNPMWMSKC 478

RESULT 8  
 AAB72286  
 ID AAB72286 standard; Protein; 1982 AA.  
 XX AC AAB72286;  
 XX DT 14-MAY-2001 (first entry)  
 XX DE Human ADAMTS-9 amino acid sequence.  
 XX KW ADAMTS-N; disintegrin; metalloproteinase; thrombospondin type I motif;  
 XX tumour cachexia; inflammation; dermatoparaxis; EDS-VIIC; angiogenesis;  
 XX Ehlers-Danlos syndrome type VIIC; articular cartilage erosion; human;  
 XX metastasis; embryogenesis; egg implantation; ADAMTS-9.  
 XX OS Homo sapiens.  
 XX FN WO200111074-A2.  
 XX PD 15-FEB-2001.  
 XX PF 03-AUG-2000; 2000WO-US21223.  
 XX PR 06-AUG-1999; 99US-0369364.  
 XX PA (CLEV-) CLEVELAND CLINIC FOUND.  
 XX PA (APTE/) APTE S S.  
 XX PA (HURS/) HURSKAINEN T L.  
 XX PA (HIRO/) HIROHATA S.  
 XX PI Apte SS, Hurskainen TL, Hirohata S;  
 XX WPI; 2001-159978/16.  
 XX SUB; AAF63443.

human 'A Disintegrin-like And Metalloproteinase domain with  
 type I motifs' proteins and the nucleic acids encoding

PT them, useful for treating e.g. tumours, inflammation and arthritis -  
 XX Claim 1; Fig 7; 181pp; English.

XX This invention relates to murine and human ADAMTS-N (A disintegrin-like  
 CC and metalloproteinase domain with thrombospondin type I motifs) proteins,  
 CC designated ADAMTS-5, 6, 7, 8, 9, 10 and 11. Also included in the  
 CC invention are cDNA sequences encoding the proteins and antibodies  
 CC specific for the proteins. The nucleic acid sequences and proteins may be  
 CC used in the prevention, diagnosis and treatment of diseases associated  
 CC with inappropriate ADAMTS-N expression. Disorders that may be treated  
 CC using the nucleic acids, proteins and antibodies include, for example  
 CC tumour cachexia, inflammation, dermatoparaxis in cattle or Ehlers-Danlos  
 CC syndrome type VIIC (EDS-VIIC) in humans, erosion of articular cartilage  
 CC in arthritic (both inflammatory and non-inflammatory) disease,  
 CC angiogenesis, tumour growth and metastases, and they may also be used for  
 CC controlling embryogenesis and implantation of fertilised eggs. The  
 CC present sequence represents human ADAMTS-9.

XX SQ Sequence 1882 AA;  
 Query Match 98.5%; Score 1015.5; DB 22; Length 1882;  
 Best Local Similarity 99.5%; Pred. No. 7.6e-105;  
 Matches 189; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 1 LSPYRFVEVLVADNRWVS YHGENLQHYLTMSIVASIVKPSIGNLNINIVNVLIVH 60  
 DB 237 LSPYRFVEVLVADNRWVS YHGENLQHYLTMSIVASIVKPSIGNLNINIVNVLIVH 296  
 QY 61 NEQDGPISFNACTTLKQFQWHSKNSPGGIHHDHTAVLLTRQDICRAHDKCDTLGLAEL 120  
 DB 297 NEQDGPISFNACTTLKQFQWHSKNSPGGIHHDHTAVLLTRQDICRAHDKCDTLGLAEL 355  
 QY 121 GTICDPYRSCSISDSGLSTAFTHAELGHVFNPHDNNKKEGVKSPQHVMAPTLNF 180  
 DB 356 GTICDPYRSCSISDSGLSTAFTHAELGHVFNPHDNNKKEGVKSPQHVMAPTLNF 415  
 QY 181 YTNPMWMSKC 190  
 DB 416 YTNPMWMSKC 425

RESULT 9  
 AAB72301  
 ID AAB72301 standard; Protein; 1934 AA.

XX AC AAB72301;  
 XX DT 14-MAY-2001 (first entry)  
 XX DE Human ADAMTS-9 alternative amino acid sequence.

XX KW ADAMTS-N; disintegrin; metalloproteinase; thrombospondin type I motif;  
 XX tumour cachexia; inflammation; dermatoparaxis; EDS-VIIC; angiogenesis;  
 XX Ehlers-Danlos syndrome type VIIC; articular cartilage erosion; human;  
 XX metastasis; embryogenesis; egg implantation; ADAMTS-9.

XX OS Homo sapiens.  
 XX FN WO200111074-A2.  
 XX PD 15-FEB-2001.  
 XX PF 03-AUG-2000; 2000WO-US21223.  
 XX PR 06-AUG-1999; 99US-0369364.  
 XX PA (CLEV-) CLEVELAND CLINIC FOUND.  
 XX PA (APTE/) APTE S S.  
 XX PA (HURS/) HURSKAINEN T L.  
 XX PA (HIRO/) HIROHATA S.

XX PI Apte SS, Hurskainen TL, Hirohata S;  
 XX WPI; 2001-159978/16.  
 XX SUB; AAF63443.

DR WPI; 2001-159978/16.  
XX N-PSDB; AAF63449.  
XX Murine and human 'A Disintegrin-like And Metalloprotease domain with  
PT Thrombospondin type I motifs' proteins and the nucleic acids encoding  
PT them, useful for treating e.g. tumours, inflammation and arthritis -  
XX Disclosure; Fig 17; 181pp; English.

XX This invention relates to murine and human ADAMTS-N (A disintegrin-like  
CC and metalloprotease domain with thrombospondin type I motifs) proteins,  
CC designated ADAMTS-5, 6, 7, 8, 9, 10 and R1. Also included in the  
CC invention are cDNA sequences encoding the proteins, and antibodies  
CC specific for the proteins. The nucleic acid sequences and proteins may be  
CC used in the prevention, diagnosis and treatment of diseases associated  
CC with inappropriate ADAMTS-N expression. Disorders that may be treated  
CC using the nucleic acids, proteins and antibodies include, for example  
CC tumour cachexia, inflammation, dermatosparaxis in cattle or Ehlers-Danlos  
CC syndrome type VIIC (EDS-VIIC) in humans, erosion of articular cartilage  
CC in arthritic (both inflammatory and non-inflammatory) disease,  
CC angiogenesis, tumour growth and metastases, and they may also be used for  
CC controlling embryogenesis and implantation of fertilised eggs. The  
XX present sequence represents human ADAMTS-9.

XX SQ Sequence 1934 AA;  
Query Match 98.5%; Score 1015.5; DB 22; Length 1934;  
Best Local Similarity 99.5%; Pred. No. 7.9e-105;  
Matches 189; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 1 LSYPRFVEVLVADNRVMSYHGENLQHYLTMSIVASIVKDPISGNLIVNVLIVH 60  
DB 289 LSYPRFVEVLVADNRVMSYHGENLQHYLTMSIVASIVKDPISGNLIVNVLIVH 348  
QY 61 NEQDGPISFNQAQTLTKNFCQWQHSKSPGGIHHDHTAVLLTRQDICRAHDKCDTLGLAEL 120  
DB 349 NEQDGPISFNQAQTLTKNFCQWQHS -NSPGGIHHDHTAVLLTRQDICRAHDKCDTLGLAEL 407  
QY 121 GTICDPYRSCSISDSGLSTAFTHAELGHVFNPHDDNNKCKEKGKSPQHVMAPTLNF 180  
DB 408 GTICDPYRSCSISDSGLSTAFTHAELGHVFNPHDDNNKCKEKGKSPQHVMAPTLNF 467  
QY 181 YTNPMWMSKC 190  
DB 468 YTNPMWMSKC 477

ULT 10  
AAB72287  
ID AAB72287 standard; Protein; 874 AA.  
XX AAB72287;  
XX 14-MAY-2001 (first entry)  
XX Murine ADAMTS-9 amino acid sequence.

DE ADAMTS-N; disintegrin; metalloprotease; thrombospondin type I motif;  
KW tumour cachexia; inflammation; dermatosparaxis; EDS-VIIC; angiogenesis;  
KW Ehlers-Danlos syndrome type VIIC; articular cartilage erosion; mouse;  
KW metastasis; embryogenesis; egg implantation; ADAMTS-9.  
XX Mus musculus.  
XX WO200111074-A2.  
XX 15-FEB-2001.  
XX 03-AUG-2000; 2000WO-US21223.  
XX 06-AUG-1999; 99US-0369364.  
XX

(CLEV-) CLEVELAND CLINIC FOUND.  
(APTE/) APTE S S.  
PA (HURS/) HURSKAINEN T L.  
PA (HIRO/) HIROHATA S.  
XX Apte SS, Hurekainen TL, Hirohata S;  
XX WPI; 2001-159978/16.  
DR N-PSDB; AAF63444.  
XX Murine and human 'A Disintegrin-like And Metalloprotease domain with  
PT Thrombospondin type I motifs' proteins and the nucleic acids encoding  
PT them, useful for treating e.g. tumours, inflammation and arthritis -  
XX Claim 1; Fig 8; 181pp; English.

XX This invention relates to murine and human ADAMTS-N (A disintegrin-like  
CC and metalloprotease domain with thrombospondin type I motifs) proteins,  
CC designated ADAMTS-5, 6, 7, 8, 9, 10 and R1. Also included in the  
CC invention are cDNA sequences encoding the proteins, and antibodies  
CC specific for the proteins. The nucleic acid sequences and proteins may be  
CC used in the prevention, diagnosis and treatment of diseases associated  
CC with inappropriate ADAMTS-N expression. Disorders that may be treated  
CC using the nucleic acids, proteins and antibodies include, for example  
CC tumour cachexia, inflammation, dermatosparaxis in cattle or Ehlers-Danlos  
CC syndrome type VIIC (EDS-VIIC) in humans, erosion of articular cartilage  
CC in arthritic (both inflammatory and non-inflammatory) disease,  
CC angiogenesis, tumour growth and metastases, and they may also be used for  
CC controlling embryogenesis and implantation of fertilised eggs. The  
XX present sequence represents murine ADAMTS-9.

XX SQ Sequence 874 AA;  
Query Match 91.9%; Score 947; DB 22; Length 874;  
Best Local Similarity 91.6%; Pred. No. 1.4e-97;  
Matches 174; Conservative 8; Mismatches 8; Indels 0; Gaps 0;

QY 1 LSYPRFVEVLVADNRVMSYHGENLQHYLTMSIVASIVKDPISGNLIVNVLIVH 60  
DB 128 LSYPRFVEVLVADNRVMSYHGENLQHYLTMSIVASIVKDPISGNLIVNVLIVH 187  
QY 61 NEQDGPISFNQAQTLTKNFCQWQHSKSPGGIHHDHTAVLLTRQDICRAHDKCDTLGLAEL 120  
DB 188 NEQEGPIYFNQAQTLTKNFCQWQHSKNYLGIOHDTAVLVTRDICTRAQDKCDTLGLAEL 247  
QY 121 GTICDPYRSCSISDSGLSTAFTHAELGHVFNPHDDNNKCKEKGKSPQHVMAPTLNF 180  
DB 248 GTICDPYRSCSISDSGLSTAFTHAELGHVFNPHDDNNKCKEKGKSPQHVMAPTLNF 307  
QY 181 YTNPMWMSKC 190  
DB 308 YTNPMWMSKC 317

RESULT 11  
AAU77133  
ID AAU77133 standard; Protein; 1907 AA.  
XX AAU77133;  
XX AAU77133;  
XX 05-JUN-2002 (first entry)  
XX Human protease #12.  
XX Human; protease; enzyme.  
XX Homo sapiens.  
XX WO200216564-A2.  
XX 28-FEB-2002.  
XX 22-AUG-2001; 2001WO-US26148.  
XX

19-267 for domain

XX CC The invention relates to an isolated human protease polypeptide (PRTS).  
CC CC PRTS protein and DNA are useful for diagnosing, treating and preventing  
CC CC gastrointestinal disorders (gastritis, cirrhosis, Crohn's disease),  
CC CC autoimmune/inflammatory disorders (AIDS, allergy, rheumatoid arthritis,  
CC CC anaemia, asthma), cardiovascular disorder (atherosclerosis, hypertension,  
CC CC myocardial infarction), cell proliferative disorders (hepatitis, cancer,  
CC CC psoriasis), developmental disorders (Cushing's syndrome, hypothyroidism),  
CC CC epithelial disorder (vitiligo, keloid, eczema), neurological disorders  
CC CC (epilepsy, Alzheimer's disease, Pick's disease, Huntington's disease,  
CC CC Parkinson's disease), and reproductive disorders (infertility). PRTS  
CC CC protein is useful in a number of drug screening techniques and to  
CC CC analyse the proteome of a tissue or cell type. PRTS DNA is useful for  
CC CC creating knockin humanised animals or transgenic animals to model human  
CC CC diseases, in somatic or germline gene therapy and in microarrays  
CC CC utilising fluids or tissues from patients to detect altered PKIN  
CC CC expression. The present sequence is human PRTS-10 protein. Human PRTS-10  
CC CC gene is located on chromosome 3.  
XX CC

Query Match 99.6%; Score 1405; DB 23; Length 1916;  
Best Local Similarity 100.0%; Pred. No. 4.2e-139;  
Matches 268; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 MGSPDAAAARKDLHPQVKLLTLELSEYIVSPIRVNALGEPPTNVHFKTRRSINSA 61  
DB 1 MGSPDAAAARKDLHPQVKLLTLELSEYIVSPIRVNALGEPPTNVHFKTRRSINSA 60  
QY 62 TDPWPAFASSSSTSSQAHYRLSAFQQQLFNLTANAGFIAPLFTVTLTGTPGVNQT 121  
DB 61 TDPWPAFASSSSTSSQAHYRLSAFQQQLFNLTANAGFIAPLFTVTLTGTPGVNQT 120  
QY 122 YSEEEAEKHCIFYKYGVNTNSEHTAVISLCSGMLGTFRSHDGDYFIEPLQSMDEQDEEE 181  
DB 121 YSEEEAEKHCIFYKYGVNTNSEHTAVISLCSGMLGTFRSHDGDYFIEPLQSMDEQDEEE 180  
QY 182 QNKPHIIRRSAPOREPSTGRHACDTSEHKNRHSKDKKTRARKWGERINLAGDVAALNS 241  
DB 181 QNKPHIIRRSAPOREPSTGRHACDTSEHKNRHSKDKKTRARKWGERINLAGDVAALNS 240  
QY 242 GLATEAFSAVGNKTDNTREKTRHRTKR 269  
DB 241 GLATEAFSAVGNKTDNTREKTRHRTKR 268

RESULT 8  
AAB72301  
ID AAB72301 standard; Protein; 1934 AA.  
XX AC AAB72301;  
XX DT 14-MAY-2001 (first entry)  
XX DE Human ADAMTS-9 alternative amino acid sequence.

ADAMTS-N; disintegrin; metalloprotease; thrombospondin type I motif;  
tumour cachexia; inflammation; dermatosparaxis; EDS-VIIC; angiogenesis;  
Ehlers-Danlos syndrome type VIIC; articular cartilage erosion; human;  
metastasis; embryogenesis; egg implantation; ADAMTS-9.  
OS Homo sapiens.  
XX WO2000111074-A2.  
XX PN 15-FEB-2001.

XX 03-AUG-2000; 2000WO-US21223.  
XX 03-AUG-1999; 99US-0369364.  
XX IRELAND CLINIC FOUND.

PA (HURS/) HURSKAINEN T L.  
XX (HIRO/) HIROHATA S.  
XX PI Apte SS, Hurskainen TL, Hirohata S;  
XX WPI; 2001-159978/16.  
DR N-PSDB; AAF63449.  
XX Murine and human 'A Disintegrin-like And Metalloprotease domain with  
XX Thrombospondin type I motifs' proteins and the nucleic acids encoding  
XX them, useful for treating e.g. tumours, inflammation and arthritis -  
XX Disclosure; Fig 17; 181pp; English.  
XX This invention relates to murine and human ADAMTS-N (A disintegrin-like  
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XX with inappropriate ADAMTS-N expression. Disorders that may be treated  
XX using the nucleic acids, proteins and antibodies include, for example  
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XX syndrome type VIIC (EDS-VIIC) in humans, erosion of articular cartilage  
XX in arthritic (both inflammatory and non-inflammatory) disease,  
XX angiogenesis, tumour growth and metastases, and they may also be used for  
XX controlling embryogenesis and implantation of fertilised eggs. The  
XX present sequence represents human ADAMTS-9.  
XX Sequence 1934 AA;

Query Match 99.1%; Score 1398; DB 22; Length 1934;  
Best Local Similarity 99.3%; Pred. No. 2.4e-138;  
Matches 267; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 1 EMGSPDAAAARKDLHPQVKLLTLELSEYIVSPIRVNALGEPPTNVHFKTRRSINS 60  
DB 19 EMGSPDAAAARKDLHPQVKLLTLELSEYIVSPIRVNALGEPPTNVHFKTRRSINS 78  
QY 61 ATDPWPAFASSSSTSSQAHYRLSAFQQQLFNLTANAGFIAPLFTVTLTGTPGVNQT 120  
DB 79 ATDPWPAFASSSSTSSQAHYRLSAFQQQLFNLTANAGFIAPLFTVTLTGTPGVNQT 138  
QY 121 FYSEEEAEKHCIFYKYGVNTNSEHTAVISLCSGMLGTFRSHDGDYFIEPLQSMDEQDEEE 180  
DB 139 FYSEEEAEKHCIFYKYGVNTNSEHTAVISLCSGMLGTFRSHDGDYFIEPLQSMDEQDEEE 198  
QY 181 EONKPHIIRRSAPOREPSTGRHACDTSEHKNRHSKDKKTRARKWGERINLAGDVAALN 240  
DB 199 EONKPHIIRRSAPOREPSTGRHACDTSEHKNRHSKDKKTRARKWGERINLAGDVAALN 258  
QY 241 SGLATEAFSAVGNKTDNTREKTRHRTKR 269  
DB 259 SGLATEAFSAVGNKTDNTREKTRHRTKR 287

RESULT 9  
ABG30702  
ID ABG30702 standard; Protein; 1602 AA.  
XX AC ABG30702;  
XX DT 07-OCT-2002 (first entry)  
XX DE Human aggrecanase polypeptide #1.  
XX KW Human; aggrecanase; enzyme; computer aided drug design; osteoarthritis;  
XX KW aggrecan; genetic disorder; proteolytic activity; articular cartilage;  
XX KW osteopathic; antiarthritic.  
XX OS Homo sapiens.  
XX Key Location/Qualifiers  
FH

KW Ehlers-Danlos syndrome type VIIC; articular cartilage erosion; human;  
 KW metastasis; embryogenesis; egg implantation; ADAMTS-9.  
 XX Homo sapiens.  
 XX WO200111074-A2.  
 XX 15-FEB-2001.  
 XX 03-AUG-2000; 2000WO-US21223.  
 XX 06-AUG-1999; 99US-0369364.  
 XX (CLEV-) CLEVELAND CLINIC FOUND.  
 XX (APTE/) APTE S S.  
 XX (HURS/) HURSKAINEN T L.  
 XX (HIRO/) HIROHATA S.  
 XX Apte SS, Hurskainen TL, Hirohata S;  
 WPI; 2001-159978/16.  
 N-PSDB; AAF63449.  
 Murine and human 'A Disintegrin-like And Metalloprotease domain with  
 Thrombospondin type I motifs' proteins and the nucleic acids encoding  
 them, useful for treating e.g. tumours, inflammation and arthritis -  
 Disclosure; Fig 17; 181pp; English.  
 This invention relates to murine and human ADAMTS-N (A disintegrin-like  
 and metalloprotease domain with thrombospondin type I motifs) proteins,  
 designated ADAMTS-5, 6, 7, 8, 9, 10 and R1. Also included in the  
 invention are cDNA sequences encoding the proteins, and antibodies  
 specific for the proteins. The nucleic acid sequences and proteins may be  
 used in the prevention, diagnosis and treatment of diseases associated  
 with inappropriate ADAMTS-N expression. Disorders that may be treated  
 using the nucleic acids, proteins and antibodies include, for example  
 tumour cachexia, inflammation, dermatoparaxis in cattle or Ehlers-Danlos  
 syndrome type VIIC (EDS-VIIC) in humans, erosion of articular cartilage  
 in arthritic (both inflammatory and non-inflammatory) disease,  
 angiogenesis, tumour growth and metastases, and they may also be used for  
 controlling embryogenesis and implantation of fertilised eggs. The  
 present sequence represents human ADAMTS-9.  
 Sequence 1934 AA;  
 Query Match 98.6%; Score 8989.5; DB 22; Length 1934;  
 Best Local Similarity 99.3%; Pred. No. 0;  
 Matches 1612; Conservative 2; Mismatches 8; Indels 1; Gaps 1;  
 QY 1 MQFVSWATLLTLVRLDLAEMGSPDAAAARVDRDLHPRQVKLLTSEYEIVSPRVNALG 60  
 DB 1 MQFVSWATLLTLVRLDLAEMGSPDAAAARVDRDLHPRQVKLLTSEYEIVSPRVNALG 60  
 QY 61 EPPPTNVHFRTRRRINSATDPWPAFASSSSSSTSSOAHYRLSAPGOQFLNLTANAGFI 120  
 DB 61 EPPPTNVHFRTRRRINSATDPWPAFASSSSSSTSSOAHYRLSAPGOQFLNLTANAGFI 120  
 QY 121 APLFTVTLGTPGVNQTQFYBEEAEKHCYKGYVNTNSEHTAVISLCSGMLGTFPRSHD 180  
 DB 121 APLFTVTLGTPGVNQTQFYBEEAEKHCYKGYVNTNSEHTAVISLCSGMLGTFPRSHD 180  
 QY 181 GYFTIEPLOSMDQDEDEEQNKPHIYRSPAPQEPSTGTHACDTSBKHNRHSDKKKTR 240  
 DB 181 GYFTIEPLOSMDQDEDEEQNKPHIYRSPAPQEPSTGTHACDTSBKHNRHSDKKKTR 240  
 QY 241 ARKWRGERINLADGVAALNSGLATEAFSAFNGKNTDNTREKTRHRTKFLSYPRFVEVLV 300  
 DB 241 ARKWRGERINLADGVAALNSGLATEAFSAFNGKNTDNTREKTRHRTKFLSYPRFVEVLV 300  
 QY 360 QWVSYGEMLOHVLTLTMSIVASIVKDSIGNLINVIVNLIVIHNEQDGPISFNA 360  
 DB 360 QWVSYGEMLOHVLTLTMSIVASIVKDSIGNLINVIVNLIVIHNEQDGPISFNA 360

QY 361 QTTLNPCQWHSKNSPGIHHDTAVALLTRQDICRAHDKCDTGLAELGTICDPYSCSI 420  
 DB 361 QTTLNPCQWHS - NSPGIHHDTAVALLTRQDICRAHDKCDTGLAELGTICDPYSCSI 419  
 QY 421 SEDSGLSTAFTIAHELGHVFNPHDNNKCKEGBVKSQHVMAPTLNFYTNPMWSKCSR 480  
 DB 420 SEDSGLSTAFTIAHELGHVFNPHDNNKCKEGBVKSQHVMAPTLNFYTNPMWSKCSR 479  
 QY 481 KYITFLDTGYCECLLNEPSPYPPLVQILYNNKOCCELLFGPGSOVCYPMQCCR 540  
 DB 480 KYITFLDTGYCECLLNEPSPYPPLVQILYNNKOCCELLFGPGSOVCYPMQCCR 539  
 QY 541 LMCNNVGVHKGCRTOHTPWADTECEPGKCKYGFVCPKEMDVPVTDGSGWSWSPFGTC 600  
 DB 540 LMCNNVGVHKGCRTOHTPWADTECEPGKCKYGFVCPKEMDVPVTDGSGWSWSPFGTC 599  
 QY 601 SRTCGGKTAIRECNRPKNGGKCYGVRMKPKSNTPECLKQKRDFOCAHFDGK 660  
 DB 600 SRTCGGKTAIRECNRPKNGGKCYGVRMKPKSNTPECLKQKRDFOCAHFDGK 659  
 QY 661 HFNINGLLPNVWPVKYSGILMKDRCKLFCRVAGNTAYYQLRDRVIDGTGCGQDTNDICV 720  
 DB 660 HFNINGLLPNVWPVKYSGILMKDRCKLFCRVAGNTAYYQLRDRVIDGTGCGQDTNDICV 719  
 QY 721 QGLCRQAGCDHVLNSKARDKCGVCGDGNSSCKTVAGTNTVHYGNTVVRIPAGATNID 780  
 DB 720 QGLCRQAGCDHVLNSKARDKCGVCGDGNSSCKTVAGTNTVHYGNTVVRIPAGATNID 779  
 QY 781 VRQHSFSGTDDNDYLLSSSGKGFLLNGFVVTMAKREIRIGNAVVEYSGSETAVERIN 840  
 DB 780 VRQHSFSGTDDNDYLLSSSGKGFLLNGFVVTMAKREIRIGNAVVEYSGSETAVERIN 839  
 QY 841 STDRIBOELLLOVLSVGLKYNPDVRYSNPIEDKPOQFVWNSHGPWQACSKPCQGERK 900  
 DB 840 STDRIBOELLLOVLSVGLKYNPDVRYSNPIEDKPOQFVWNSHGPWQACSKPCQGERK 899  
 QY 901 KLWCTRESQDLTVSPQRCDRLPQGHITPCGTCDLRHVAHRSSECSAOCGLGYRTLDI 960  
 DB 900 KLWCTRESQDLTVSPQRCDRLPQGHITPCGTCDLRHVAHRSSECSAOCGLGYRTLDI 959  
 QY 961 YCAKYSRLDGKTEKVDGFCSSHPKSNREKSCGECNTGWRYSANTWTECSKSCDGGTQR 1020  
 DB 960 YCAKYSRLDGKTEKVDGFCSSHPKSNREKSCGECNTGWRYSANTWTECSKSCDGGTQR 1019  
 QY 1021 RALCVNTRNDVLDLDSKTHQEKVTIQRCSFPCQWKSQWSECLVTCGKGKHROWWCQ 1080  
 DB 1020 RALCVNTRNDVLDLDSKTHQEKVTIQRCSFPCQWKSQWSECLVTCGKGKHROWWCQ 1079  
 QY 1081 FGBDLNDRMCDPEKPTSMOTCOQPECASQWAGPWGSCSVTCGGYQLRAVKICIIGTYM 1140  
 DB 1080 FGBDLNDRMCDPEKPTSMOTCOQPECASQWAGPWGSCSVTCGGYQLRAVKICIIGTYM 1139  
 QY 1141 SVVDDNDCHNAATPTDTCDELPSCHPPPAAPETRRSTYSAPRTQWFGSWTFCSATCGK 1200  
 DB 1140 SVVDDNDCHNAATPTDTCDELPSCHPPPAAPETRRSTYSAPRTQWFGSWTFCSATCGK 1199  
 QY 1201 GTRMYVSCRDENGSVADESAATLPRVAKESVTPCGQWKALDWSVSCVTCGQGRAT 1260  
 DB 1200 GTRMYVSCRDENGSVADESAATLPRVAKESVTPCGQWKALDWSVSCVTCGQGRAT 1259  
 QY 1261 RQWCMVNSDHWIDRSECDQDYIPETDODCSMSPCORTPDGSLAOPHONEDYRPSAS 1320  
 DB 1260 RQWCMVNSDHWIDRSECDQDYIPETDODCSMSPCORTPDGSLAOPHONEDYRPSAS 1319  
 QY 1321 PSRTHVLGNQWRTGFWGACSSSTCAGGSRVSVVQDENGTYANDCVERIKPDEQRACES 1380  
 DB 1320 PSRTHVLGNQWRTGFWGACSSSTCAGGSRVSVVQDENGTYANDCVERIKPDEQRACES 1379  
 QY 1381 GPCFQWAYGNWGECKTLGGGIRTLVVCORNGERPDLSCEILDKPPDREOQNTHACP 1440  
 DB 1380 GPCFQWAYGNWGECKTLGGGIRTLVVCORNGERPDLSCEILDKPPDREOQNTHACP 1439

QY 1501 WKAGAWSQCSVSCGRGVQORHVGCOIGTHKARETECNPTPRSERDCQCPRLYTWR 1560  
Db 1500 WKAGAWSQCSVSCGRGVQORHVGCOIGTHKARETECNPTPRSECCQCPRLYTWR 1559  
QY 1561 ABEWQECTKTGEGSRYSRKVVCDDNKNVHGARDVSKRPVDRSCSLQPCYVWITGE 1620  
Db 1560 ABEWQECTKTGEGSRYSRKVVCDDNKNVHGARDVSKRPVDRSCSLQPCYVWITGE 1619  
QY 1621 WSE 1623  
Db 1620 WSE 1622

RESULT 5

AAE19173  
AAE19173 standard; Protein; 1916 AA.

AC AAE19173;

DT 21-MAY-2002 (first entry)

DE Human protease, PRTS-10 protein.

XX Human; protease; PRTS-10; enzyme; gastritis; cirrhosis; Crohn's disease;  
KW gastrointestinal disorder; autoimmune; inflammatory; cell proliferative;  
KW cardiovascular; developmental; epithelial; neurological; reproductive;  
KW AIDS; Acquired Immune Deficiency Syndrome; allergy; rheumatoid arthritis;  
KW anaemia; asthma; atherosclerosis; hypertension; myocardial infarction;  
KW hepatitis; cancer; psoriasis; Cushing's syndrome; hypothyroidism; eczema;  
KW epilepsy; Alzheimer's disease; Huntington's disease; Parkinson's disease;  
KW Pick's disease; infertility; vitiligo; drug screening; gene therapy;  
KW chromosome 3.

XX Homo sapiens.

OS  
FH Key Location/Qualifiers  
FT Domain 570..623  
FT /note= "Thrombospondin type I domain"  
FT Domain 1313..1364  
FT /note= "Thrombospondin type I domain"  
FT Domain 1426..1479  
FT /note= "Thrombospondin type I domain"

XX W0300208396-A2.

PD 31-JAN-2002.

PF 17-JUL-2001; 2001WO-US22397.

XX 21-JUL-2000; 2000US-220063P.

PR 28-JUL-2000; 2000US-221680P.

PR 04-AUG-2000; 2000US-223544P.

PR 11-AUG-2000; 2000US-224717P.

PR 16-AUG-2000; 2000US-225988P.

PR 23-AUG-2000; 2000US-227568P.

XX (INCY-) INCYTE GENOMICS INC.

PA Deleage AM, Gandhi AR, Hafalia AJA, Lu DAM, Patterson C;  
PI Tribouley CM, Das D, Kallik DA, Nguyen DB, Lee EA, Khan FA;  
PI Yue H, Au-Young J, Griffin JA, Policky JL, Ramkumar J, Yang J;  
PI Thangavelu K, Ding L, Kearney L, Baughn MR, Borowsky ML;  
PI Sanjanwalla MS, Yao MG, Burford N, Wallia NK, Lal P, Lee S, Todd S;  
PI Lo TP, Tang YT, Elliott VS, Azimzai Y, Lu Y;  
XX WPI; 2002-206082/26.

DR N-PSDB; AAD30577.

XX New human protease polypeptide, useful in diagnosis, prevention and

PT treatment of gastrointestinal, cardiovascular, autoimmune/inflammatory,  
PT cell proliferative, developmental, epithelial and neurological  
PT disorders  
XX Claim 1; Page 143-147; 182pp; English.  
PS The invention relates to an isolated human protease polypeptide (PRTS).  
XX PRTS protein and DNA are useful for diagnosing, treating and preventing  
CC gastrointestinal disorders (gastritis, cirrhosis, Crohn's disease),  
CC autoimmune/inflammatory disorders (AIDS, allergy, rheumatoid arthritis,  
CC anaemia, asthma), cardiovascular disorder (atherosclerosis, hypertension,  
CC myocardial infarction), cell proliferative disorders (hepatitis, cancer,  
CC psoriasis), developmental disorders (Cushing's syndrome, hypothyroidism),  
CC epithelial disorder (vitiligo, keloid, eczema), neurological disorders  
CC (epilepsy, Alzheimer's disease, Pick's disease, Huntington's disease,  
CC Parkinson's disease), and reproductive disorders (infertility). PRTS  
CC protein is useful in a number of drug screening techniques and to  
CC analyse the proteome of a tissue or cell type. PRTS DNA is useful for  
CC creating knockin humanised animals or transgenic animals to model human  
CC diseases, in somatic or germline gene therapy and in microarrays  
CC utilising fluids or tissues from patients to detect altered PKIN  
CC expression. The present sequence is human PRTS-10 protein. Human PRTS-10  
CC gene is located on chromosome 3.  
XX

XX Sequence 1916 AA;

Query Match 98.6%; Score 8985; DB 23; Length 1916;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 1603; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 20 MGSPDAAAARVDRHPRQVKKLETLSEYIVSPVRVVALGEPPTNVHFKTRRSINSA 79

Db 1 MGSPDAAAARVDRHPRQVKKLETLSEYIVSPVRVVALGEPPTNVHFKTRRSINSA 60

QY 80 TDPNPAFASSSSSSTSSQAHYRLSAFGQOFLNLTANAGFIAPLFTVTLTGPVGNQTKF 139

Db 61 TDPNPAFASSSSSSTSSQAHYRLSAFGQOFLNLTANAGFIAPLFTVTLTGPVGNQTKF 120

QY 140 YSEEEAEKHCYKGYVNTNSEHTAVISLCSGMLGTRSHDGDYFIEPLQSMDEQDEEE 199

Db 121 YSEEEAEKHCYKGYVNTNSEHTAVISLCSGMLGTRSHDGDYFIEPLQSMDEQDEEE 180

QY 200 QNKPHIYRRSAPQREPSTGRHACDTSEHKNRHSKDKKTKRKGWGRINLAGDVAALNS 259

Db 181 QNKPHIYRRSAPQREPSTGRHACDTSEHKNRHSKDKKTKRKGWGRINLAGDVAALNS 240

QY 260 GLATEAFSAYGNKTDNTRKTHRTKRFSLSPYRFEVLVVDNRMVSYHGENLQHYILT 319

Db 241 GLATEAFSAYGNKTDNTRKTHRTKRFSLSPYRFEVLVVDNRMVSYHGENLQHYILT 300

QY 320 LMSIVASIKDPSIGNLNIIVNLIIVHNEODGPSISFNAQTTLKNFCQWHSKNSPGG 379

Db 301 LMSIVASIKDPSIGNLNIIVNLIIVHNEODGPSISFNAQTTLKNFCQWHSKNSPGG 360

QY 380 IHDTAVLLTRQDICRAHDKCDTGLAEELGTICDPYRSCSISSEGLSTAFTHAELGHV 439

Db 361 IHDTAVLLTRQDICRAHDKCDTGLAEELGTICDPYRSCSISSEGLSTAFTHAELGHV 420

QY 440 FNMPHDDNNKCKEGVKSPQHVMAPTLNFYTNPMWSKCRKTYTEFLDTGYGECCLNPE 499

Db 421 FNMPHDDNNKCKEGVKSPQHVMAPTLNFYTNPMWSKCRKTYTEFLDTGYGECCLNPE 480

QY 500 ESRPYPLPVLPGILYNNVKNOCELIFGSGQVCPYMWQCRRLWCNNVYHKGCRTOHTP 559

Db 481 ESRPYPLPVLPGILYNNVKNOCELIFGSGQVCPYMWQCRRLWCNNVYHKGCRTOHTP 540

QY 560 WADGTECEPGRHCKYGCVPKEMDVPVTDGWSGWSWSPFGTCSCGCGIKTATRECNRP 619

Db 541 WADGTECEPGRHCKYGCVPKEMDVPVTDGWSGWSWSPFGTCSCGCGIKTATRECNRP 600

QY 620 PKNGGKYCVGRMKFKSCNTEPCLKQKRDPRDQCAHFDGKHFNINGLLPNVRWPKYSG 679

Db 601 PKNGGKYCVGRMKFKSCNTEPCLKQKRDPRDQCAHFDGKHFNINGLLPNVRWPKYSG 660